

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

Boldly "X" this box if there is qualified data on this page.

Meter KIST 556 #1 RQ- 2016-07-04-11 Project SUNNYSIDE 1

- Notes: (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site _____
 Temperature (Quarterly) FT 1400 Date of Last Temperature Verification 10/4/2016

	Date	Time	Temp	D.O. Charge	Meter D.O.	% DO	Probe Charge	Probe	Pass / Fail	Lab / Field
Calibr.	07/06/16	0705	23.5	8.49	8.49	100	—	—	Pass	LAB
ICV	07/06/16	0720	23.9	8.43	8.44	100.0	—	—	Pass	LAB
CCV	07/06/2016	1420	24.6	8.32	8.53	102.6	—	—	P	L
CCV										

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

DO Acceptance criteria from Table ± 0.3 mg/L.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

	Date	Time	Lot #	Expir. Date	Standard	Meter Reading	Pass / Fail	Lab / Field
Calibr.	07/06/16	0722	15113B	11/2016	1000	1000	Pass	LAB
ICV	07/06/16	0725	15113A	11/2016	100	101	Pass	LAB
CCV	07/06/16	1425	15113A	11/2016	100			
CCV								

Report specific conductance as a whole number with no decimal figure.

Conductivity Acceptance criteria $\pm 5\%$

	Date	Time	Lot #	Expir. Date	pH Buffer	Meter reading	mV	Pass / Fail	Lab / Field
Calibr.	07/06/16	0730	2510A81	10/2017	7.0	7.00	-40.2	Pass	LAB
Calibr.		0735	2509FH	09/2017	4.0	4.00	123.4	Pass	LAB
Calibr.		0740	2510A86	04/2017	10.0	9.97	-195.0	Pass	LAB
ICV		0742	2510A81	10/2017	7.0	7.07	-40.9	Pass	LAB
CCV	07/06/16	1430	2510A81	10/2017	7.0	7.17	-45.8	P	L
CCV									

Report pH with one decimal place; pH Acceptance criteria ± 0.25 U;

mV pH7 Range 0 $\pm$ 50;

mV pH 4 Range

+180 $\pm$ 50; mV pH 10 Range -180 $\pm$ 50;

Slope from 7 to 10 and 4 to 7 must be between 165

and 180mV

Depth (Quarterly)

Date of Last Depth Verification _____

	Date	Time	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air			0.000			

ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater

CALIBRATION AND VERIFICATION LOG (FDEP SOP FT 1000-FT 1500, FD 1000-FD 4000)

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Meter VSI #3 RQ- 1016-07-04-25 Project Low Lake

- Notes:** (1) Numbers ≤ 4 , are rounded down; numbers ≥ 5 are rounded up (e.g., 5.15 becomes 5.2).
 (2) Always wait for meter to stabilize before recording any readings.
 (3) For Calibrations, record calibrated meter reading. Do not record initial meter reading before calibration.

Circle/Fill In: Lab Calibration or Calibration/Verification on Site Lab

Temperature (Quarterly) FT 1400

Date of Last Temperature Verification 7/1/2016

DO DEP SOP FT 1500	Name	Date	Time CT-ET	Temp	D.O. Chart mg/L	Meter D.O. mg/L	% DO	Probe Charge	Probe Gain	Pass / Fail	Lab / Field
Calibr.	J Parrish	7/6/16	705	23.2	8.55	8.55	100	45.2	1.119	P	L
ICV	J Parrish	7/6/16	708	23.4	8.52	8.52	100	48.2	1.119	P	L
CCV	B Davis	7/6/16	1413	22.57	8.64	8.62	99.8	47.1	1.119	P	L
CCV											

Report DO mg/L with one decimal figure and DO % saturation as a whole number with no decimals.

DO Acceptance criteria from Table ± 0.3 mg/L.

Rapid-Pulse Sensors: DO Gain Range 0.7 to 1.4; DO Charge Range 25-75.

Optical: DO gain range 0.85 to 1.15; DO charge N/A.

Steady-state & Galvanic Sensors: DO Gain & Charge N/A.

Spec. Cond. FT 1200	Name	Date	Time CT-ET	Lot #	Explr. Date	Standard μ mhos/cm	Meter Reading μ mhos/cm	Pass / Fail	Lab / Field
Calibr.									
ICV	J Parrish	7/6/16	709	160216A	2/17	1000	990	P	
CCV	B Davis	7/6/16	1417	151113A	11/16	100	104		
CCV									

Report specific conductance as a whole number with no decimal figure.

Conductivity Acceptance criteria $\pm 5\%$

pH DEP SOP FT 1100	Name	Date	Time CT-ET	Lot #	Explr. Date	pH Buffer SU	Meter reading SU	mV	Pass / Fail	Lab / Field
Calibr.						7.0				
Calibr.						4.0				
Calibr.						10.0				
ICV	J Parrish	7/6/16		256A81	10/17	7.0	7.02	-10.8	P	
CCV	B Davis	7/6/16	1420	1509F14	7/17	4.0	4.02	166.8	P	L
CCV										

Report pH with one decimal place; pH Acceptance criteria ± 0.2 SU;

mV pH7 Range 0 ± 50 ;

mV pH 4 Range

$+180 \pm 50$; mV pH 10 Range -180 ± 50 ;

Slope from 7 to 10 and 4 to 7 must be between 165

and 180 mV

Depth (Quarterly)

Date of Last Depth Verification _____

Depth Sensor (Daily)	Name	Date	Time CT-ET	Zero the Sensor	ICV Value	Pass / Fail	Lab / Field
Pressure mode in air				0.000			

ICV acceptance criteria $\pm 5\%$ or ± 0.05 m, whichever is greater